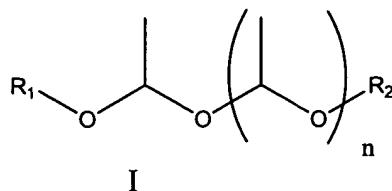


## ABSTRACT

Acetaldehyde precursors useful in flavors and fragrances, especially in consumable products, are according to the formula I



wherein  $R_1$  and  $R_2$  are selected such that both are  $-\text{CH}_2\text{CH}_3$ , or both are linear, branched or cyclic alkyl, aryl, alcohol or sugar residues, and  $n=1-10$ , with the proviso that, when  $R_1$  and  $R_2$  are selected such that both are  $-\text{CH}_2\text{CH}_3$ ,  $n=1, 2, 3$  or  $4$ .

- 10 The precursors overcome many of the disadvantages of present sources of acetaldehyde in consumable products.

Rec'd PCT/PTO 10 MAY 2005

(12) INTERNATIONAL PUBLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



534 435

(43) International Publication Date  
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number  
WO 2004/048305 A1

(51) International Patent Classification<sup>7</sup>: C07C 43/303,  
43/315, A23L 1/226, C11B 9/00

(74) Agent: MCSTEA, John, Anthony; Givaudan Schweiz  
AG, Global Patents, Überlandstrasse 138, CH-8600 Dübendorf (CH).

(21) International Application Number:  
PCT/CH2003/000784

(22) International Filing Date:  
26 November 2003 (26.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0227681.4 28 November 2002 (28.11.2002) GB

(71) Applicant (for all designated States except US): GIVAUDAN SA [CH/CH]; Chemin de la Parfumerie 5, CH-1214 Vernier (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GASSENMEIER, Klaus [DE/CH]; Heugatterstrasse 22, CH-8600 Dübendorf (CH). NELISSEN, Jean, Paul [NL/CH]; Dorfstrasse 55, CH-8105 Watt (CH). DANIHER, Andrew [US/US]; 3406 Walworth Avenue, Cincinnati, OH 45226 (US). FURRER, Stefan, Michael [CH/US]; 1336 Main Street Unit 401, Cincinnati, OH 45202 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

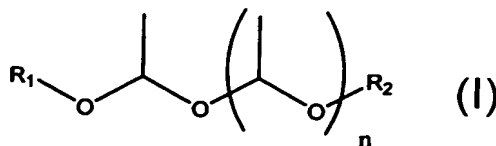
(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLAVOR AND FRAGRANCE COMPOUNDS



(57) **Abstract:** Acetaldehyde precursors useful in flavors and fragrances, especially in consumable products, are according to formula (I), wherein R<sub>1</sub> and R<sub>2</sub> are selected such that both are -CH<sub>2</sub>CH<sub>3</sub>, or both are linear, branched or cyclic alkyl, aryl, alcohol or sugar residues, and n=1-10, with the proviso that, when R<sub>1</sub> and R<sub>2</sub> are selected such that both are -CH<sub>2</sub>CH<sub>3</sub>, n=1, 2, 3 or 4. The precursors overcome many of the disadvantages of present sources of acetaldehyde in consumable products.

WO 2004/048305 A1